ATLAS SILICONE HYBRID RENDER

thin-coat acrylic-silicone render

- vapour-permeable
- very low water absorption
- very high dirt resistance
- high adhesion to the substrate

Properties

A modern thin-coat render based on an innovative combination of two types of binders: acrylic and silicone resin.

Characterised by very low surface absorbency, providing effective protection of the substrate against water.

Due to the addition of silicone resin, it exhibits significantly higher resistance to dirt compared to standard acrylic renders.

It allows for a dense and very distinctive texture with a grain size of up to 1.5 mm.

The render is also recommended for mechanical application using a plastering unit.

BIO PROTECTION - creates unfavourable conditions for the growth of fungi and moulds due to its low absorbency and pH environment.

FLEXIBILITY AND DURABILITY – the formulation for increased flexibility and impact resistance means that the render perfectly compensates for stresses caused by impact, maintains cohesion and does not splinter.

COLOR DURABILITY – advanced technology ensures colour durability thanks to the use of modern pigments, a computer-controlled pigment dosing system and a production process under constant control – the render retains its original colours for longer and is more resistant to fading and UV radiation.

ENVIRONMENTAL-FRIENDLY – the render formula has been designed with sustainability in mind: the final product contains reduced content of volatile organic substances and natural fillers only.

RESISTANCE TO CRACKING – increased resistance achieved through the presence of dispersed microfibres acting as effective reinforcement throughout the entire volume of the render – it is protected against possible cracking resulting from stress and alternate heating and cooling of the surface.

406 Colours - according to SAH Paints and Renders Colour Chart

Texture – fine-grained (pebble-type)
Aggregate size - up to 1.5 mm

Intended use

Thin-coat render used on façades as a decorative finishing plaster with a grainy, pebble-type texture.
Also suitable for indoor use.

Recommended as a finishing façade layer when insulating buildings with polystyrene or XPS boards.

For facades that are particularly exposed to dirt and harsh conditions of use – ideal for buildings located near busy roads, in towns and cities and in areas of high pollution and greenery.

Types of buildings – single- and multi-family residential buildings, as well as industrial and public buildings.

Substrate types – even and properly prepared mineral substrates: concrete; traditional cement and cement–lime plasters on masonry walls (brick, ceramic, cellular or silicate blocks, hollow bricks); fibre-cement boards; reinforcement layers on polystyrene or XPS boards in thermal insulation systems.

Technical data

ATLAS SILICONE HYBRID RENDER is manufactured on the basis of a water dispersion of synthetic resins and dolomite aggregate.

Density of the finished product	approx. 1.9 g/cm³
Compound, substrate and ambient temperature before, during and after setting	from +5 to +30 °C
Water vapour permeability rate	$15 < V_2 \leq 150$
Comparative diffusion resistance	$0.14 \leq S_d < 1.4$ m

Technical requirements

ATLAS SILICONE HYBRID RENDER meets the requirements of EN 15824:2017. Declaration of Performance No. 124/1/CPR.

ATLAS ACRYLIC-SILICONE RENDER (2022) Declaration of performance No. 124/1/CPR EN 15824:2017	
Intended use: - on external walls, ceilings and columns. - on internal walls, ceilings, columns and partitions	
Water vapour permeability	V_2
Water absorption	W_2
Adhesion	0.35 MPa
Reaction to fire	A2-s1, d0

ATLAS SILICONE-HYBRID RENDER is a component of product sets for External Thermal Insulation Composite Systems:

Name of the system	European Technical Assessment No.:
ATLAS	ETA-06/0081
ATLAS GRAWIS	ETA-16/0933

Render application

Substrate preparation

The substrate should be:

- **stable** – sufficiently rigid,
- **properly cured** – the following minimum curing times apply:

– for new cement plasters made from ready-mixed mortars (e.g. ATLAS): at least 1 week per each cm of thickness,
– for concrete walls – at least 28 days,

- **dry,**
- **even** – irregularities and defects should be filled using, for example, ATLAS ZW 330, ATLAS PLASTERING MIX or adhesives used for forming the reinforcement layer in insulation systems. Before repair works, the substrate should be primed with ATLAS UNI-GRUNT,
- **clean** – free from layers that may impair adhesion of the render, particularly dust, dirt, lime, oil, grease, wax, and residues of oil-based and emulsion paints. If the substrate is affected by biological contamination, ATLAS MYKOS PLUS should be used to remove it,
- **primed** – with ATLAS CERPLAST.

Preparation of the rendering mass

The render is supplied as a ready-to-use mass and must not be combined with other materials, diluted or thickened. Immediately before use, it should be stirred to a uniform consistency.

Application of the rendering mass

Apply the compound using a smooth stainless steel trowel, forming an even layer with a thickness corresponding to the aggregate size. Remove excess material back into the container and remix.

The render can also be applied mechanically; example recommended plastering units include:
– WAGNER PC 830e with a 6 mm nozzle, operating pressure 1.5 bar,
– MAI 2MULTIPUMP with a 6 mm nozzle, operating pressure 1 bar,
– GRACO Textspray RTX 1500 with a 6 mm diameter nozzle.

Texturing

Freshly hand-applied render should be textured using a plastic float, working the surface in a circular motion. Any binder laitance formed during texturing must be removed and must not be returned to the bucket or mixed back into the render.
Machine-applied render should not be textured.

Consumption

Average consumption for manual application depends on the evenness of the substrate and is < 2.5 kg/m².
The average consumption of the render when applied mechanically is lower than that for manual application. This is due, among other factors, to the different structure of the applied render (lower aggregate compaction).
The exact consumption value in both cases should be determined by means of a test carried out on the specific substrate.

Packaging

Plastic buckets 25 kg

Safety information

Safety information is given on the product packaging and in the Safety Data Sheet, available at www.atlas.com.pl.

Storage and transport

Information on storage and transport is given on the product packaging and in the Safety Data Sheet, available at www.atlas.com.pl.

The shelf life of the product is 12 months from the date of manufacture indicated on the packaging.

Important additional information

For a given type of substrate and forecast weather conditions, the maximum area that can be applied in one technological cycle (spreading and floating operations) should be determined experimentally.

The material should be applied using the wet-on-wet method, without allowing the floated surface to dry before the next batch is applied; otherwise, visible joints may occur. Technological breaks should be planned in advance, e.g. at corners and edges of the building, in recesses, under drainpipes, at colour junctions, etc.

The rendered surface should be protected from direct sunlight, wind and precipitation, both during application and throughout the drying period.

Depending on the substrate, temperature and relative air humidity, the drying time of the render is approximately 24 hours. Under conditions of increased humidity and temperatures of approx. +5 °C, the setting time may be extended.

To avoid possible differences in colour shades, render from the same production batch should be applied to one continuous surface.

Tools should be cleaned with clean water immediately after use. Difficult-to-remove residues of the set compound should be removed using ATLAS SZOP 2000.

Dark, intense render colours (HBW < 20), due to increased absorption of solar radiation, are recommended only for limited façade areas (architectural details).

The use of the product on horizontal surfaces exposed to permanent direct contact with water and snow, as well as on surfaces exposed to dampness caused by capillary moisture rise, is not permitted.

The information contained in this Technical Data Sheet constitutes general guidelines for product application and does not relieve the user of the obligation to carry out the works in accordance with the principles of good construction practice and applicable health and safety regulations. Upon publication of this Technical Data Sheet, all previous editions become invalid. Documents accompanying the product are available at www.atlas.com.pl

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